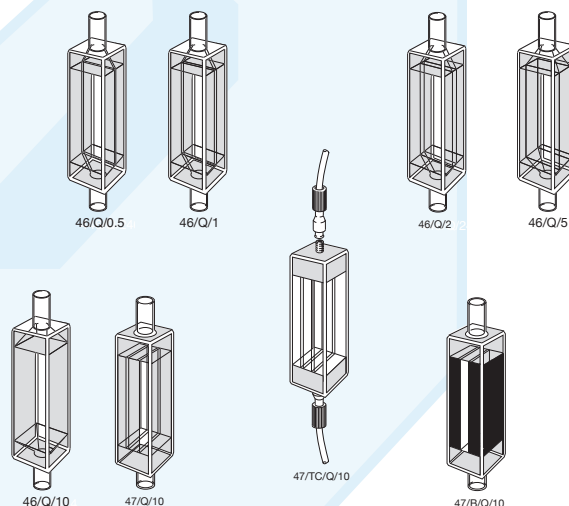


Type 46, 46-F Fluorimeter & 47 Flow cells. In-line

- Two polished windows. Type 46-F have 4 windows and base polished.
- Tubulations intended for push-on flexible tubing.
- Profiled inlet and outlet
- Inlet/outlet tubes - 2mm I.D., 4mm O.D. and 10mm long.
- TYPE 47/TC Screw-on connections

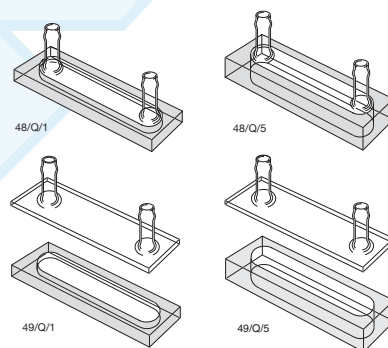
Type No.	Window Materials	Path Length	Internal Width	External L	External W	External H	Nominal Vol. ml
Clear walls							
46 & 46-F	Q	0.5	10	12.5	12.5	65	0.185
46 & 46-F	Q	1	10	12.5	12.5	65	0.370
46 & 46-F	Q	2	10	12.5	12.5	65	0.740
46 & 46-F	Q	5	10	12.5	12.5	65	1.850
46 & 46-F	G, SOG, Q	10	10	12.5	12.5	65	3.700
Semi-micro. Clear walls							
47	G, SOG, Q	10	4	12.5	12.5	65	1.480
47/TC	Q	10	4	12.5	12.5	65	1.480
Semi-micro. Self-masking. Black walls							
47/B	Q	10	4	12.5	12.5	65	1.480



Type 48 Flow cells & Type 49 demountable Flow cells. Short path length

- Two polished windows.
- Inlet/outlet tubes - 2 I.D, 4 O.D, 16mm long intended for push-on flexible tubing.
- Intended for use with Type CH/2049 cell holder. (see page 28)

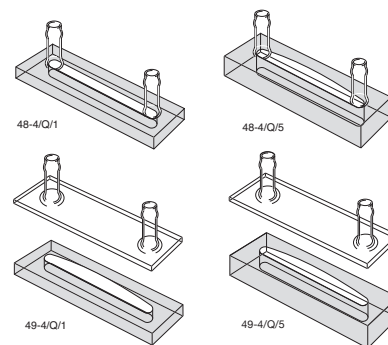
Type No.	Window Materials	Path Length	Internal W	Internal H	External L	External W	External H	Nominal Vol. ml
48 or 49	Q, I	0.01	8	38	2.6	12.5	45	0.003
48 or 49	Q, I	0.1	8	38	2.6	12.5	45	0.030
48 or 49	Q, I	0.2	8	38	2.7	12.5	45	0.060
48 or 49	Q, I	0.5	8	38	3.0	12.5	45	0.150
48 or 49	G, SOG, Q, I	1	8	38	3.5	12.5	45	0.300
48 or 49	G, SOG, Q, I	2	8	38	4.5	12.5	45	0.600
48 or 49	G, SOG, Q, I	5	8	38	7.5	12.5	45	1.560



Type 48-4 Flow cells & Type 49-4 demountable Flow cells. Short path length

- Two polished windows.
- Inlet/outlet tubes - 2 I.D, 4 O.D, 16mm long intended for push-on flexible tubing.
- Intended for use with Type CH/2049 cell holder. (see page 28)

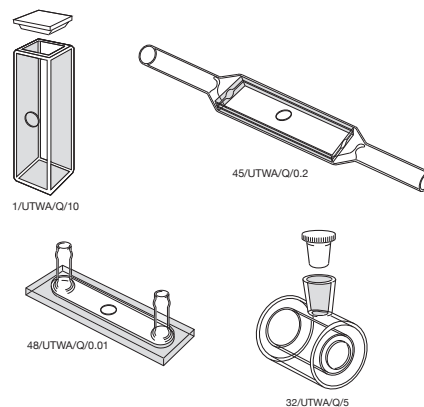
Type No.	Window Materials	Path Length	Internal W	Internal H	External L	External W	External H	Nominal Vol. ml
48-4 or 49-4	Q, I	0.01	4	38	2.6	12.5	45	0.002
48-4 or 49-4	Q, I	0.1	4	38	2.6	12.5	45	0.015
48-4 or 49-4	Q, I	0.2	4	38	2.7	12.5	45	0.030
48-4 or 49-4	Q, I	0.5	4	38	3.0	12.5	45	0.075
48-4 or 49-4	G, SOG, Q, I	1	4	38	3.5	12.5	45	0.150
48-4 or 49-4	G, SOG, Q, I	2	4	38	4.5	12.5	45	0.300
48-4 or 49-4	G, SOG, Q, I	5	4	38	7.5	12.5	45	0.780



Types UTWA & UTWA2. Ultra thin wall aperture cells

- Two polished windows.
- Aperture window - 0.2mm (200 microns)
- For use with high magnification systems
- UTWA/2 has two thin window apertures, one in each window.

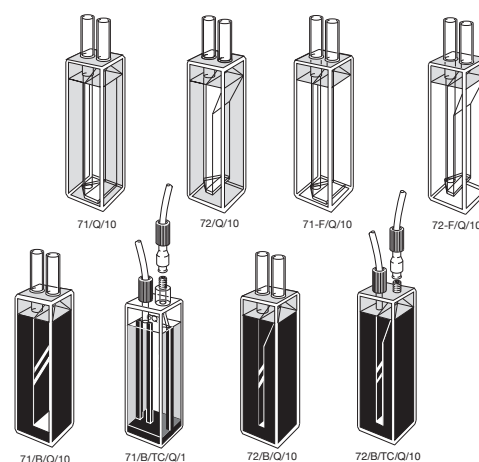
Type No.	Window Materials	Path Length	Internal Width	External L	External W	Internal HDia.	External Dia.
1/UTWA	Q	All	10	12.5	12.5	45	-
1/UTWA2	Q		10	12.5	12.5	45	-
45/UTWA	Q		10	12.5	12.5	45	-
45/UTWA2	Q	Path	10	12.5	12.5	45	-
48/UTWA	Q		10	2.6	12.5	45	-
48/UTWA2	Q		10	2.6	12.5	45	-
32/UTWA	Q	Lengths	-	22.5	-	-	15
32/UTWA2	Q		-	22.5	-	-	15



Type 71, 71B, 71F, 72, 72B & 72F Flow cells. Standard and semi-micro

- 71, 71B, 72 & 72B have two polished windows.
- Long sample compartment suitable for all Z dimensions.
- Inlet/outlet tubes - 2 I.D, 4 O.D, 16mm long intended for push-on flexible tubing.
- Also available with TC threaded connectors.
- 71-F & 72-F fluorescence cells have three polished windows.

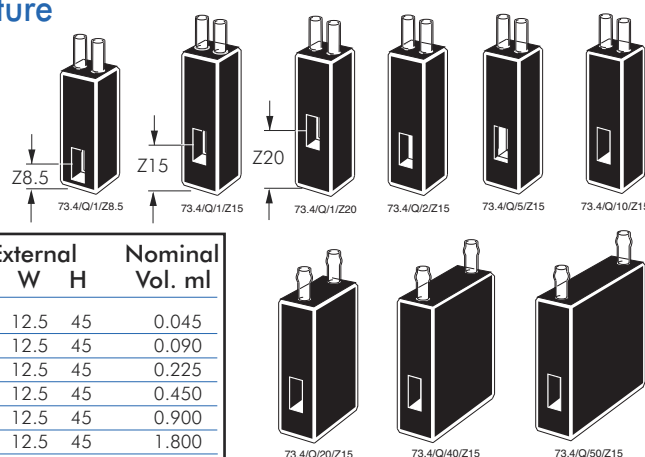
Type No.	Window Materials	Path Length	Internal		External			Nominal Vol. ml
			W	H	L	W	H	
Clear walls								
71	Q	10	7	37.5	12.5	12.5	48	3.000
71-F	Q	10	7	37.5	12.5	12.5	48	3.000
72	Q	10	4	37.5	12.5	12.5	48	1.800
72-F	Q	10	4	37.5	12.5	12.5	48	1.800
Self masking. Black walls								
71/B	Q	1	7	37.5	12.5	12.5	48	0.300
71/B	Q	10	7	37.5	12.5	12.5	48	3.000
72/B	Q	1	4	37.5	12.5	12.5	48	0.180
72/B	Q	10	4	37.5	12.5	12.5	48	1.800



Type 73.4. Flow cells. Dissolution, medium aperture

- Two polished windows.
- Inlet/outlet tubes - 2 I.D, 4 O.D, 10mm long intended for push-on flexible tubing.
- Cells with a Z height of 8.5mm have an overall height of 38.5mm.

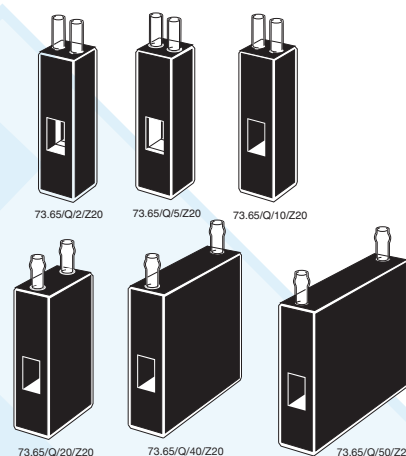
Type No.	Window Material	Path Length	Z Height	Internal		External			Nominal Vol. ml
				W	H	L	W	H	
73.4	Q	1	8.5, 15, 20	4	11	12.5	12.5	45	0.045
73.4	Q	2	8.5, 15, 20	4	11	12.5	12.5	45	0.090
73.4	Q	5	8.5, 15, 20	4	11	12.5	12.5	45	0.225
73.4	SOG, Q, SX	10	8.5, 15, 20	4	11	12.5	12.5	45	0.450
73.4	Q	20	8.5, 15, 20	4	11	22.5	12.5	45	0.900
73.4	Q	40	8.5, 15, 20	4	11	42.5	12.5	45	1.800
73.4	Q	50	8.5, 15, 20	4	11	52.5	12.5	45	2.250



Type 73.65 Flow cells. Dissolution, wide aperture

- Two polished windows.
- Inlet/outlet tubes - 2 I.D, 4 O.D, 10mm long intended for push-on flexible tubing.
- Cells with a Z height of 8.5mm have an overall height of 38.5mm.

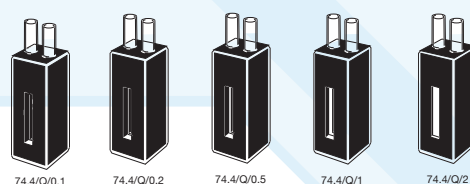
Type No.	Window Material	Path Length	Z Height	Internal		External			Nominal Vol. ml
				W	H	L	W	H	
73.65	Q	1	8.5, 15, 20	6.5	11	12.5	12.5	45	0.072
73.65	Q	2	8.5, 15, 20	6.5	11	12.5	12.5	45	0.144
73.65	Q	5	8.5, 15, 20	6.5	11	12.5	12.5	45	0.360
73.65	Q	10	8.5, 15, 20	6.5	11	12.5	12.5	45	0.720
73.65	Q	20	8.5, 15, 20	6.5	11	22.5	12.5	45	1.440
73.65	Q	40	8.5, 15, 20	6.5	11	42.5	12.5	45	2.880
73.65	Q	50	8.5, 15, 20	6.5	11	52.5	12.5	45	3.600



Type 74.4 Flow cells. Dissolution. Short path length, long aperture

- Two polished windows.
- Path lengths of 0.5mm or less incorporate by-pass tubes to avoid back pressure and assist laminar flow through the sample compartment. Profiled sample compartment to optimise flow characteristics, reduces carry-over and bubble retention.
- Inlet/outlet tubes - 2 I.D, 4 O.D, 10mm long intended for push-on flexible tubing.

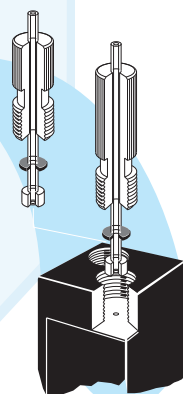
Type No.	Window Material	Path Length	Z Height	Internal		External			Nominal Vol. ml
				W	H	L	W	H	
74.4	Q	0.1	15	4	17.5	12.5	12.5	35	0.042
74.4	Q	0.2	15	4	17.5	12.5	12.5	35	0.049
74.4	Q	0.5	15	4	17.5	12.5	12.5	35	0.100
74.4	Q	1	15	4	17.5	12.5	12.5	35	0.135
74.4	Q	2	15	4	17.5	12.5	12.5	35	0.200



Advantages of Starna® Type 583, 584, 576, 577 & 585 series flow cells

(for 576, 577 & 583 see page 20)

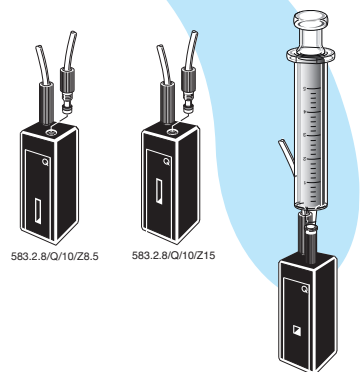
- Fully fused body, accurately located in precisely formed extruded CNC drilled enclosure.
- Superior design, firm and accurate positioning of screw-in M6 gripper fittings with PTFE tubing, without reliance on the shear strength of intermediate bonding material.
- Polished top surface of the cell creates a positive seal with the PTFE face of the M6 gripper fitting, (see illustration), ensures a leak proof seal without dislodging the cell body or damaging the cell surface.
- A gap of ≈ 300 microns between the top of the cell body and the enclosure allows confirmation of a positive seal before use.
- Internally profiled inlet and outlet to each sample chamber optimises flow characteristic and performance, providing a smooth laminar flow wherever possible and reduces bubble retention.
- All cells are pressure tested to more than 5 bar after final assembly.
- Each cell is engraved with the path length and a unique identifying number, for full traceability throughout the manufacturing process.
- Cells with path lengths of less than 0.5mm or less are checked on a reference spectrophotometer before and after final assembly using an interference method. The path length is determined to an uncertainty better than 0.2 microns (0.0002mm). Path lengths of 0.5mm or greater are verified by physical measurement during the production processes.
- Flanged fittings, FEP tubing, and special adaptors Type TJ/G/038 for use with normal silicone tubing are available, see page 29.
- Short path length flow cells may be used as static short path length using a syringe and luer lock adaptor (see illustration).



Type 583.2.8 Flow cells. Dissolution. Micro aperture

- Two polished windows.
- M6 Screw-in connections.
- Profiled sample compartment to optimise flow characteristics, reduces carry-over and bubble retention.

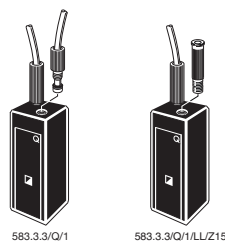
Type No.	Window Material	Path Length	Z Height	Internal W	Internal H	External L	External W	External H	Nominal Vol. ml
583.2.8	Q	10	8.5, 15	2	8	12.5	12.5	35	0.160



Type 583.3.3. Flow cells. Sub-micro. Small aperture

- Two polished windows.
- Overflow tube attached to outlet side of cell.
- M6 fittings as described, included with cell.
- Also designed for use with luer lock fitting and syringe for introduction and extraction of sample.

Type No.	Window Materials	Path Length	Z Height	Internal W	Internal H	External W	External H	Nominal Vol. ml
583.3.3	Q	1	15	3	3	12.5	35	0.009
583.3.3	Q	2	15	3	3	12.5	35	0.018
583.3.3	Q	5	15	3	3	12.5	35	0.045

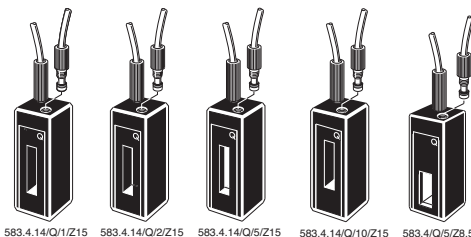


Z Dimension per instrument

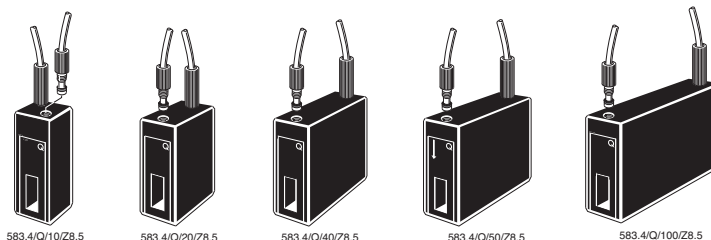
Manufacturer	Z Dimension
Agilent®	15mm
Beckman®	8.5mm
Bio-Rad®	8.5mm
Eppendorf®	8.5mm
GBC®	15mm
Hewlett-Packard®	15mm
Hitachi®	8.5mm
Jasco®	12mm
Perkin-Elmer®	15mm
Pharmacia®	15mm
Scinco®	15mm
Shimadzu®	15mm
Spectronics®	8.5mm
Turner®	8.5mm
Varian® (Cary®/Agilent®)	20mm

Type 583.4 & 583.4.14 Flow cells. Dissolution. Medium Aperture

- Two polished windows.
- M6 Screw-in connections.
- Profiled sample compartment to optimise flow characteristics, reduces carry-over and bubble retention.

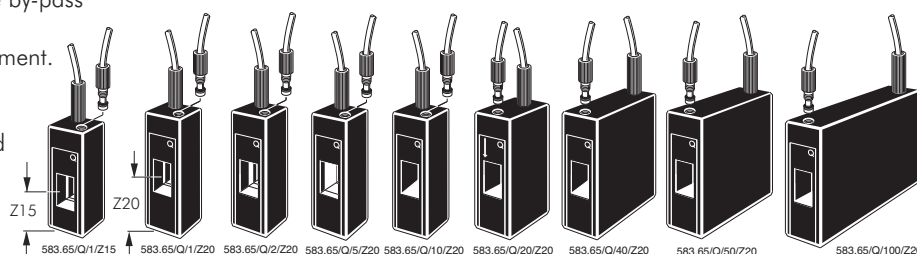


Type No.	Window Materials	Path Length	Z Height	Internal W	Internal H	External W	External H	Nominal Vol. ml
583.4.14	Q	1	15, 20	4	14	12.5	35	0.056
583.4.14	Q	2	15, 20	4	14	12.5	35	0.112
583.4.14	Q	5	15, 20	4	14	12.5	35	0.280
583.4.14	Q	10	15, 20	4	14	12.5	35	0.560
583.4	Q	5	8.5, 15, 20	4	11	12.5	35	0.225
583.4	Q	10	8.5, 15, 20	4	11	12.5	35	0.450
583.4	Q	20	8.5, 15, 20	4	11	12.5	35	0.900
583.4	Q	40	8.5, 15, 20	4	11	12.5	35	1.800
583.4	Q	50	8.5, 15, 20	4	11	12.5	35	2.250
583.4	Q	100	8.5, 15, 20	4	11	12.5	35	4.500



Type 583.65 Flow cells. Dissolution. Wide aperture

- Two polished windows.
- Cells with a Z height of 20mm have overall an height of 40mm.
- Path lengths of 0.5mm or less incorporate by-pass tubes to avoid back pressure and assist laminar flow through the sample compartment.
- M6 Screw-in connections.
- Profiled sample compartment to optimise flow characteristics, reduce carry-over and bubble retention.



Type No.	Window Material	Path Length	Z Height	Internal W	Internal H	External L	External W	External H	Nominal Vol. ml
583.65	Q	0.1	15, 20	6.5	11	12.5	12.5	35	0.029
583.65	Q	0.2	15, 20	6.5	11	12.5	12.5	35	0.036
583.65	Q	0.5	15, 20	6.5	11	12.5	12.5	35	0.072
583.65	Q	1	15, 20	6.5	11	12.5	12.5	35	0.072
583.65	Q	2	15, 20	6.5	11	12.5	12.5	35	0.290
583.65	Q	5	15, 20	6.5	11	12.5	12.5	35	0.360
583.65	Q	10	15, 20	6.5	11	12.5	12.5	35	0.720
583.65	Q	20	15, 20	6.5	11	22.5	12.5	35	1.400
583.65	Q	40	15, 20	6.5	11	42.5	12.5	35	2.900
583.65	Q	50	15, 20	6.5	11	52.5	12.5	35	3.600
583.65	Q	100	15, 20	6.5	11	102.5	12.5	35	7.200



Type 583.65.65 Flow cells. Dissolution. Wide square aperture

- Two polished windows.
- Cells with a Z height of 20mm have overall an height of 40mm.
- M6 Screw-in connections.
- Profiled sample compartment to optimise flow characteristics, reduces carry over and bubble retention.
- Aperture with reduced height and volume for specific instruments such as Agilent 8453 and Varian Cary 50.

Type No.	Window Material	Path Length	Z Height	Internal W	Internal H	External L	External W	External H	Nominal Vol. ml
583.65.65	Q	1	15, 20*	6.5	6.5	12.5	12.5	35	0.076
583.65.65	Q	2	15, 20*	6.5	6.5	12.5	12.5	35	0.160
583.65.65	Q	5	15, 20*	6.5	6.5	12.5	12.5	35	0.210
583.65.65	Q	10	15, 20*	6.5	6.5	12.5	12.5	35	0.420

* When Z height is 20mm, external height is 40mm

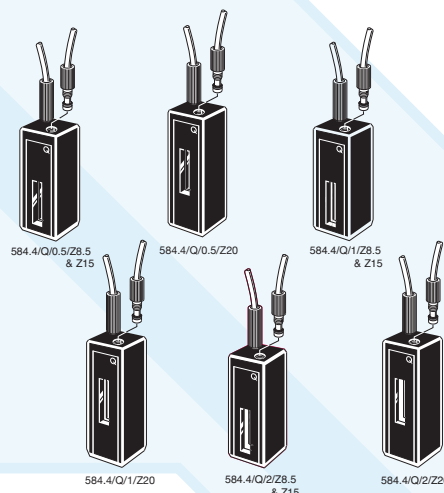


Type 584.4 Flow cells. Dissolution. Short path length, long aperture

- Two polished windows.
- Long aperture.
- Path lengths of 0.5mm or less incorporate by-pass tubes to avoid back pressure and assist laminar flow through the sample compartment.
- M6 Screw-in connections.
- Profiled sample compartment to optimise flow characteristics, reduces carry over and bubble retention.

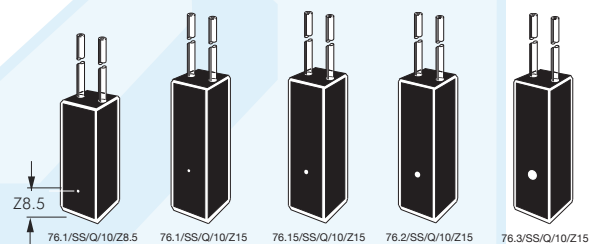
Type No.	Window Material	Path Length	Z Height	Internal W	Internal H	External L	External W	External H	Nominal Vol. ml
584.4	Q	0.01	8.5, 15, 20*	4	17.5	12.5	12.5	35	0.036
584.4	Q	0.05	8.5, 15, 20*	4	17.5	12.5	12.5	35	0.039
584.4	Q	0.1	8.5, 15, 20*	4	17.5	12.5	12.5	35	0.041
584.4	Q	0.2	8.5, 15, 20*	4	17.5	12.5	12.5	35	0.047
584.4	Q	0.5	8.5, 15, 20*	4	17.5	12.5	12.5	35	0.095
584.4	Q	1	8.5, 15, 20*	4	17.5	12.5	12.5	35	0.120
584.4	Q	2	8.5, 15, 20*	4	17.5	12.5	12.5	35	0.240

* When Z height is 20mm, external height is 40mm



Type 76. Flow cells HPLC, round aperture with stainless steel tubes

- Two polished windows.
- Stainless steel inlet/outlet tubes.
- Cells with a Z height of 8.5mm have an overall height of 38.5mm.



Type No.	Window Materials	Path Length	Z Height	Internal Dia.	External			Nominal Vol. ml	Stainless steel tubes				
					L	W	H		Inlet I.D.	O.D.	Outlet I.D.	O.D.	Length
76.1	Q	10	8.5, 15	1	12.5	12.5	45	0.008	0.25	1.6	0.5	1.6	100
76.15	SOG, Q	10	8.5, 15	1.5	12.5	12.5	45	0.018	1.0	1.6	1.0	1.6	100
76.2	SOG, Q	10	8.5, 15	2	12.5	12.5	45	0.040	1.0	1.6	1.0	1.6	100
76.3	SOG, Q	10	8.5, 15	3	12.5	12.5	45	0.080	1.0	1.6	1.0	1.6	100

Type 15. Micro aspiration

- Two polished windows.
- Open top.
- Filling and emptying with a pipette is recommended.

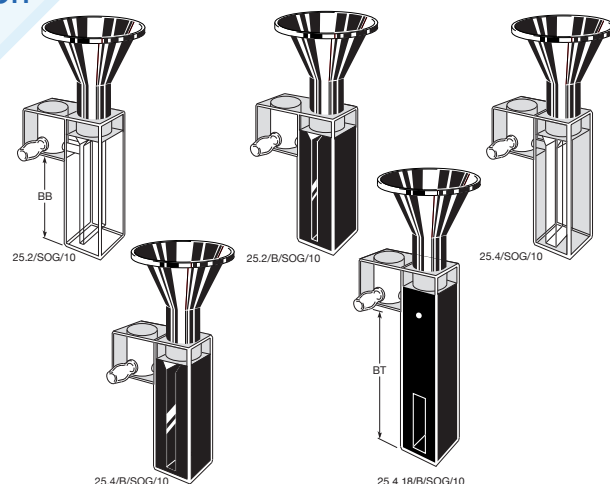


Type No.	Window Material	Path Length	Z Height	Internal W	External L	External W	External H	Nominal Vol. ml
15.50A	Q	10	8.5	-	13.5	12.5	15	0.050

Type 25. Micro & semi-micro. Vacuum suction/aspiration

- Two polished windows.
- Inlet/outlet tubes - 2 I.D., 4 O.D., 10mm long intended for push-on flexible tubing.
- Funnel supplied with cell.

Type No.	Window Materials	Path Length	Internal W	External L	External W	External H	Base to Block (BB)	Nominal Vol. ml
Micro. Clear walls								
25.2	SOG, Q	10	2	12.5	12.5	45	26	0.500
Micro. Black walls. Self-masking								
25.2/B	SOG, Q	10	2	12.5	12.5	45	26	0.500
Semi-micro. Clear walls								
25.4	SOG, Q	10	4	12.5	12.5	45	26	1.000
Semi-micro. Black walls. Self-masking								
25.4/B	SOG, Q	10	4	12.5	12.5	45	26	1.000
25.4.18/B	SOG, Q	10	4	12.5	12.5	64	44	0.750

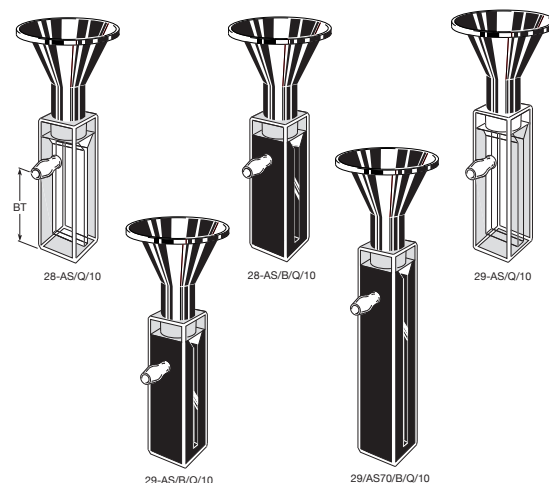


Type 28-AS. Micro, suction outlet

Type 29-AS. Semi-micro, suction outlet

- Two polished windows.
- Inlet/outlet tubes - 2 I.D., 4 O.D., 10mm long intended for push-on flexible tubing.
- Funnel supplied with cell.

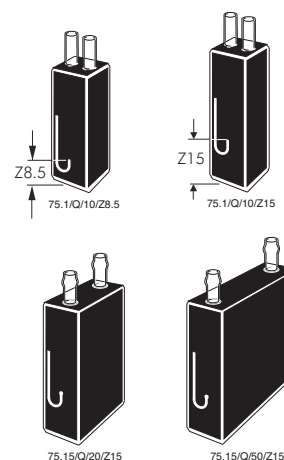
Type No.	Window Materials	Path Length	Internal W	External L	External W	External H	Base to Tube (BT)	Nominal Vol. ml
Micro. Clear walls								
28-AS	SOG, Q	10	2	12.5	12.5	48	31	0.500
Micro. Black walls. Self-masking								
28-AS/B	SOG, Q	10	2	12.5	12.5	48	31	0.500
Semi-micro. Clear walls								
29-AS	SOG, Q	10	4	12.5	12.5	48	31	1.000
Semi-micro. Black walls. Self-masking								
29-AS/B	SOG, Q	10	4	12.5	12.5	48	31	1.000
29/AS60/B	Q	10	4	12.5	12.5	60	46.5	1.200
29/AS70/B	SOG, Q	10	4	12.5	12.5	70	55	1.800



Type 75.1, 75.15 Flow cells. Ultra-micro, round aperture

- Two polished windows.
- Cells with a Z height of 8.5mm have an overall height of 38.5mm.
- Bore specially treated to reduce bubble formation and/or retention.
- Inlet/outlet tubes - 2 I.D, 4 O.D, 10mm long intended for push-on flexible tubing.

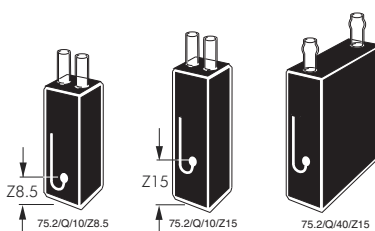
Type No.	Window Material	Path Length	Z Height	Internal Dia.	External L	W	H	Nominal Vol. ml
75.1	Q, SX	5	8.5,15	1	12.5	12.5	35	0.036
75.1	SOG, Q, SX	10	8.5,15	1	12.5	12.5	35	0.039
75.15	Q, SX	1	8.5,15	1.5	12.5	12.5	35	0.041
75.15	Q, SX	2	8.5,15	1.5	12.5	12.5	35	0.047
75.15	Q, SX	5	8.5,15	1.5	12.5	12.5	35	0.095
75.15	SOG, Q, SX	10	8.5,15	1.5	12.5	12.5	35	0.120
75.15	Q, SX	20	8.5,15	1.5	22.5	12.5	35	0.240
75.15	Q, SX	50	8.5,15	1.5	52.5	12.5	35	0.600



Type 75.2 Flow cells. Sub-micro, round aperture

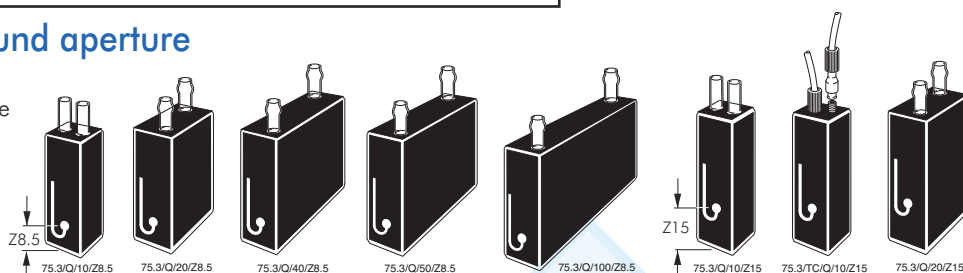
- Two polished windows.
- Cells with a Z height of 8.5mm have an overall height of 38.5mm.
- Bore specially treated to reduce bubble formation and/or retention.
- Inlet/outlet tubes - 2 I.D, 4 O.D, 10mm long intended for push-on flexible tubing.

Type No.	Window Material	Path Length	Z Height	Internal Dia.	External L	W	H	Nominal Vol. ml
75.2	SOG, Q, SX	2	8.5,15	2	12.5	12.5	45	0.007
75.2	SOG, Q, SX	5	8.5,15	2	12.5	12.5	45	0.016
75.2	SOG, Q, SX	10	8.5,15	2	12.5	12.5	45	0.032
75.2	SOG, Q, SX	40	8.5,15	2	42.5	12.5	45	0.128



Type 75.3 Flow cells. Round aperture

- Two polished windows.
- Cells with a Z height of 8.5mm have an overall height of 38.5mm.
- Bore specially treated to reduce bubble formation and/or retention.
- Inlet/outlet tubes - 2 I.D, 4 O.D, 10mm long intended for push-on flexible tubing.

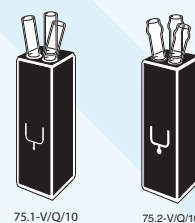


Type No.	Window Material	Path Length	Z Height	Internal W	H	External L	W	H	Nominal Vol. ml	Remarks
75.3	SOG, Q	1	8.5,15	3	1	12.5	12.5	45	0.007	
75.3	SOG, Q	2	8.5,15	3	2	12.5	12.5	45	0.014	
75.3	SOG, Q	5	8.5,15	3	5	12.5	12.5	45	0.035	
75.3	SOG, Q, SX	10	8.5,15	3	10	12.5	12.5	45	0.070	
75.3/TC	Q	10	15, 20	3	10	12.5	12.5	45	0.070	Screw-on connections
75.3	SOG, Q	20	8.5,15	3	20	22.5	12.5	45	0.140	
75.3	SOG, Q	40	8.5,15	3	40	42.5	12.5	45	0.280	
75.3	SOG, Q	50	8.5,15	3	50	52.5	12.5	45	0.350	
75.3	SOG, Q	100	8.5,15	3	100	102.5	12.5	45	0.700	

Type 75.1-V Flow cells. Ultra-micro, sub-micro, round aperture vacuum/debubbler

- Two polished windows.
- Cells with a Z height of 8.5mm have an overall height of 38.5mm.
- Bore specially treated to reduce bubble formation and/or retention.
- Inlet/outlet tubes - 2 I.D, 4 O.D, 10mm long intended for push-on flexible tubing.
- Third outlet debubbler tube - 2 I.D, 4 O.D, 10mm long.

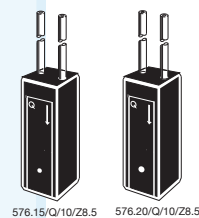
Type No.	Window Material	Path Length	Z Height	Internal Dia.	External L	W	H	Nominal Vol. ml
75.1-V	Q	10	8.5,15	1	12.5	12.5	45	0.008
75.2-V	Q	10	8.5,15	2	12.5	12.5	45	0.040



Type 576 Ultra micro, round aperture with stainless steel tubes

- Two polished windows.
- Bore specially treated to reduce bubble formation and/or retention.
- Stainless steel inlet/outlet tubes. Nominal length 100mm.

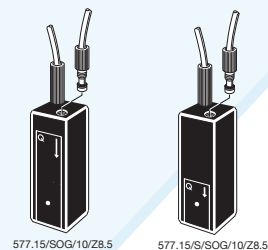
Type No.	Window Material	Path Length	Z Height	Internal Dia.	External L	W	H	Nominal Vol. ml	Inlet I.D.	O.D.	Outlet I.D.	O.D.	L
576.15	SOG, Q	10	8.5	1,5	12.5	12.5	35	0.018	1.0	1.6	1.0	1.6	100
576.20	SOG, Q	10	8.5	2,0	12.5	12.5	35	0.032	1.0	1.6	1.0	1.6	100



Type 577 Ultra micro round aperture

- Two polished windows.
- Bore specially treated to reduce bubble formation and/or retention.
- M6 screw-in connections.
- Long body or short body 577.15/S.

Type No.	Window Material	Path Length	Z Height	Internal Dia.	External L	W	H	Nominal Vol. ml
577.15	SOG	10	8.5	1,5	12.5	12.5	35	0.018
577.15/S	SOG	10	8.5	1,5	12.5	12.5	35	0.018

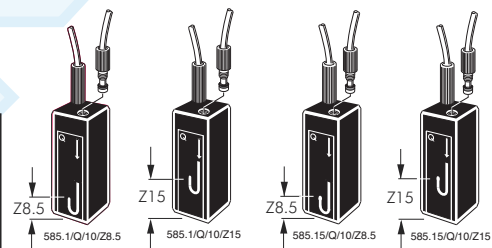


Type 585.1, 585.15 Flow cells. Ultra-micro, round aperture

- Two polished windows.
- Bore specially treated to reduce bubble formation and/or retention.
- M6 screw-in connections.

Type No.	Window Material	Path Length	Z Height	Internal Dia.	External L	W	H	Nominal Vol. ml
585.1	SOG, Q	10	8.5, 15, 20*	1	12.5	12.5	35	0.008
585.15	SOG, Q	10	8.5, 15, 20*	1.5	12.5	12.5	35	0.018

* When Z height is 20mm, external height is 40mm

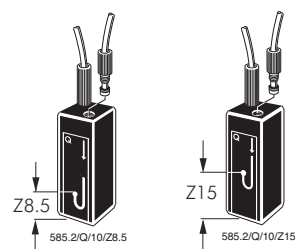


Type 585.2 Flow cells. Sub-micro, round aperture

- Two polished windows.
- Bore specially treated to reduce bubble formation and/or retention.
- M6 screw-in connections.

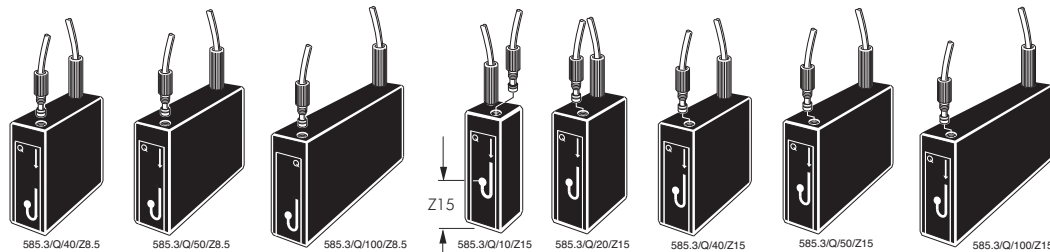
Type No.	Window Material	Path Length	Z Height	Internal Dia.	External L	W	H	Nominal Vol. ml
585.2	SOG, Q, SX	10	8.5, 15, 20*	2	12.5	12.5	35	0.032

* When Z height is 20mm, external height is 40mm



Type 585.3 Flow cells, round aperture

- Two polished windows.
- Bore specially treated to reduce bubble formation and/or retention.
- M6 screw-in connections.



Type No.	Window Material	Path Length	Z Height	Internal Dia.	External L	W	H	Nominal Vol. ml
585.3	SOG, Q	10	8.5, 15, 20*	3	12.5	12.5	35	0.070
585.3	SOG, Q	20	8.5, 15, 20*	3	22.5	12.5	35	0.140
585.3	SOG, Q	40	8.5, 15, 20*	3	42.5	12.5	35	0.280
585.3	SOG, Q	50	8.5, 15, 20*	3	52.5	12.5	35	0.350
585.3	SOG, Q	100	8.5, 15, 20*	3	102.5	12.5	35	0.700

* When Z height is 20mm, external height is 40mm

Z Dimension per instrument

Manufacturer	Z Dimension
Agilent®	15mm
Beckman®	8.5mm
Bio-Rad®	8.5mm
Eppendorf®	8.5mm
GBC®	15mm
Hewlett-Packard®	15mm
Hitachi®	8.5mm
Jasco®	12mm
Perkin-Elmer®	15mm
Pharmacia®	15mm
Scinco®	15mm
Shimadzu®	15mm
Spectronics®	8.5mm
Turner®	8.5mm
Varian® (Cary®/Agilent®)	20mm